

DESCRIPTION	
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse GPVI in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human GPVI is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 784808
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse GPVI Gly24-Lys265 Accession # P0C191
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse platelets

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**BACKGROUND**

GPVI (Platelet Glycoprotein VI; also glycoprotein 5) is a member of the Ig superfamily. It is found on platelets and megakaryocytes, and serves as the main collagen receptor on platelets. Following exposure to subendothelial connective tissue, GPVI binds to a Gly-Pro-(hydroxy)Pro motif on collagen and generates a noncovalent membrane signaling complex with FcR γ-chain. This interaction is stabilized by Integrin α2β1, followed by activation of PLCγ2 with clot initiation. Mature mouse GPVI is a 292 amino acid (aa) type I transmembrane protein. It possesses a 244 aa extracellular region (aa 22-265) that contains two C2-type Ig-like domains (aa 27-197) and two potential glycosylation sites, plus a 37 aa cytoplasmic tail (aa 287-313). There is one potential splice form that shows a deletion of aa 224-240. Over aa 24-265, mouse GPVI shares 70% and 86% aa identity with human and rat GPVI, respectively.

**PRODUCT SPECIFIC NOTICES**

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